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Amdt. Dated Apr. 7, 2005

Reply to Office Action of Jan. 10, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-5 (Canceled).

6 (Currently Amended). A golf ball comprising:

a core comprising a polybutadiene mixture;

a boundary layer formed over the core, the boundary layer comprising at least one ionomer material; and

a cover formed over the boundary layer, the cover composed of a thermosetting polyurethane material formed from reactants comprising a polytetramethylene ether glycol terminated hexamethylene diisocyanate prepolymer having a NCO group content ranging from 8.0% to 12.0% and 4,4'-methylenebis-(3-chloro,2,6-diethyl)-aniline), wherein the cover has an aerodynamic surface geometry thereon, and wherein a weight ratio of the polytetramethylene ether glycol terminated hexamethylene diisocyanate prepolymer to the curative ranges from about 10:1 to about 30:1.

7 (Original). The golf ball according to claim 6 wherein the thermosetting polyurethane material of the cover has a Shore D hardness ranging from 30 to 60 as measured according to ASTM-D2240.

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8 (Original). The golf ball according to claim 6 wherein the cover has a thickness ranging from 0.015 inch to 0.040 inch.

9 (Currently Amended). A golf ball comprising:

a core; and

a cover formed over the core, the cover composed of a thermosetting polyurethane material formed from reactants comprising a polytetramethylene ether glycol terminated hexamethylene diisocyanate prepolymer having a NCO group content ranging from 8.0% to 12.0% and a curative composed of 4,4'-methylenebis-(3-chloro,2,6-diethyl)-aniline) and diethyl 2,4-toluenediamine, wherein the cover has an aerodynamic surface geometry thereon, and wherein a weight ratio of the polytetramethylene ether glycol terminated hexamethylene diisocyanate prepolymer to the curative ranges from about 10:1 to about 30:1.

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10 (Currently Amended).

A golf ball comprising:

a core comprising a polybutadiene mixture;

a boundary layer formed over the core, the boundary layer comprising a blend of ionomer materials composed of a sodium neutralized ethylene/methacrylic acid, a zinc neutralized ethylene/methacrylic acid and a magnesium neutralized terpolymer of ethylene, methacrylic acid and n-butyl acrylate; and

a cover formed over the core, the cover composed of a thermosetting polyurethane material formed from reactants comprising a polytetramethylene ether glycol terminated hexamethylene diisocyanate prepolymer and a curative composed of 4,4'-methylenebis-(3-chloro,2,6-diethyl)-aniline] and diethyl 2,4-toluenediamine, wherein the cover has an aerodynamic surface geometry thereon.

11 (Original). The golf ball according to claim 10 wherein the golf ball has a PGA compression ranging from 70 points to 100 points.

12 (Original). The golf ball according to claim 10 wherein the core has a PGA compression in the range of 55 points to 80 points.

13 (Canceled).

14 (Original). The golf ball according to claim 10 wherein the thermosetting polyurethane material of the cover has a Shore D hardness ranging from 30 to 60 as measured according to ASTM-D2240.

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15 (Original). The golf ball according to claim 10 wherein the cover has a
thickness ranging from 0.015 inch to 0.040 inch.